

Purchase Order Receipt Listing

Friday, August 18, 2017 10:42:06 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO37410 All Receipt Dates All Line Item Types
 All Item ID/GL/WOs All Rec. Employees All Currencies
 Grouped by Vendor ID

Purchase Order ID	Line Nbr/ Insp Curr Type	Project ID Req	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty Recv Emp	Recv Date/ Recv Qty Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name											
PO37410	1	VC-COP001	Thyssenkrupp Materials CA Ltd	M6061-T6R6.500 f 6061-T6 Round Bar f 6.500"	8/17/2017 8/18/2017 3.0000 QUIR01		3.0000	\$97.72 \$293.17	0.0000 0.0000	0 0	\$293.17
CAD	No			m138319							
				M6061-T6R10.000 f 6061-T6 Round Bar f 10.00"	8/17/2017 8/18/2017 3.0000 QUIR01		3.0000	\$275.71 \$827.13	0.0000 0.0000	0 0	\$827.13
				m138319							
				71401-45 procurement quality clauses	8/17/2017 8/18/2017 1.0000 QUIR01		1.0000	\$0.00 \$0.00	0.0000 0.0000	0 0	\$0.00
				m138319							
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
\$1,120.29											
0.0000											

JC
990436
B I L L O F L A D I N G
Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

1830
No: PEC 59452
Ship Date 16Aug17 at 12:06 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Fr_t PREPAID
Route 0- 0 Manifest
Vhicle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
11862

①
Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G
1) Our Order PEC- 82255- 1 Your PO # 37410
ALUMINUM ROUND BAR 6061-T6511
6.50" DIA X 36.0000"

MTR

Heat Number	Tag No	Quantity	PCS	Wt LBS
Z000022376	680930	3 FT	1	124

2) Our Order PEC- 82255- 2 Your PO # 37410
ALUMINUM ROUND BAR 6061 T6
10.00" DIA X 36.0000"

MTR

Heat Number	Tag No	Quantity	PCS	Wt LBS
22785376	680921	3 FT	1	284

TOTAL:	Tags	PCS	LBS
	2	2	408

Heat Number *** Chemical Analysis ***
22785376
Z000022376

SP
AUG 18 2017

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 2 SKIDS GW. 440 LBS

Precision
Page: 1 ... Continued

517716
517717
518398 LAITON • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 59452

Ship From:
THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
DART AEROSPACE

Ship Date 16Aug17 at 12:06 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0 - 0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

***** TEL. 800-926-2600 *****

***** WE STOCK STAINLESS STEEL *****

***** PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *****

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 Last

LUMINÉE • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
6.50" DIA X 36.0000"
PART NO.

PO/Ref 37410

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-059452-001

16Aug17

Pg 1/1

Signed by:

Attn:



Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
PEC-285336-2		R44/STK		KAISERSELECT PRECISON ROD 6.500 +/- .022		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER	ALLOY:	TEMPER:
6035531	002	07/28/2017		Z00022376	6061	T6511B
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		DIAM/DAE/THKNS:	WIDTH:	LENGTH:
1874.000 LB	4.000 PCS	619831				12.000 FT
SHIP TO:		SOLD TO:				
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				
DAS						

Actual Physical Properties

14
9-89

17/08/22

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
200022376	0001	0001	56.9	53.5	15.6	RE	93	N/A
200022376	0002	0001	52.4	48.9	12.1	RE	92	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	C.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	C.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107490	.73	.26	.30	.09	.92	.09	.07	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION - 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00296243

Kaiser Order Number: 6035531

Line Item: C02

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061 T6

10.00" DIA X 36.000"

PART NO.

POREL 37410

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-059452-002

16Aug17
Pg 2/2

sapa

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA

17929-0187

Certified Inspection Report

Sales Order Number	1101237247	Line No.	2	Customer P/O	PEC-283895-002	Cert Number	SAPA2667173	Page	2 of 2
						Cert Creation Date	01-JUN-17	Cert Print Date	01-JUN-17

Alloy	Wt %		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max
6061	---	0.15	---	0.05	---	0.15

Composition Results

Weld Cost	Si		Fe		Cu		Mn		Ni		Cr		Zn		Ti		Others Each		Others Total	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
4040482	0.75	0.96	0.35	0.13	0.94	0.16	0.10	0.02	---	---	---	---	---	---	---	---	---	---	---	---
New Cast	Si	Fe	Cu	Mn	Ni	Cr	Zn	Ti	Others Each	Others Total										
4040484	0.75	0.95	0.32	0.12	0.94	0.14	0.08	0.02	---	---	---	---	---	---	---	---	---	---	---	---

Mechanical Property - Test Units

Test Type	UTS - I		TYS - I		EL-40D Long	
	COM	KSI	COM	KSI	PCF	PCF
UTS - I	49.1	49.1	44.1	44.1	12.4	12.4

Cert Notes

Product manufactured with a 16511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method.

All mill finish alloys produced at Sapa Industrial Extrusions comply with Directive 2011/65/EU (RoHS 2) with the exception of 6261 alloy.

In accordance with EN 10204 Inspection Certificate Type 3.1

Melted in the USA or "Qualifying Countries" (as defined in Defense Federal Acquisition Regulation Supplement (DFARS) Section 252.872-1)

Manufactured in the United States

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60L1T6 R10.00
 DATE: 17/08/22

PO / BATCH NO: 37410/138318

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 10.00
 THICKNESS RECEIVED: 10.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	N
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-09	SIGNED OFF BY: _____
DATE:	17/08/22	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MILD IT LR 6.500
 DATE: 17/08/22

PO / BATCH NO.: 37410/138319

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 13
 QUANTITY INSPECTED: 3
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 6.500
 THICKNESS RECEIVED: 6.500
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	N
CORROSION	Y <input checked="" type="checkbox"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/>	N
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	N
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-89	SIGNED OFF BY: _____
DATE:	17/08/22	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225B OR AMS-QQ-A-225B (OR AMS 4117A128A14154116)
OR QQ-A-2008 OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

A

PART NUMBER:
M6061T6RD^D [DIA]

B

WHERE "D,DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6RD.625

C

D

R10.00

RELEASED
R 2009-09-09
MAD

B	REFORMATT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09-07-13
A	NEW ISSUE	DS	01-06-08
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>JH</i>		
DRAWN	<i>JH</i>		
CHECKED	<i>JH</i>		
MFG. APPR.	<i>JH</i>		
APPROVED	<i>JH</i>		
DE APPR.	<i>JH</i>		
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD. NOT FOR SALE AND CANNOT BE COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF DART AEROSPACE LTD. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. AND IS PROVIDED TO THE CONTRACTOR FOR USE ONLY IN THE MANUFACTURE OF THE PARTS OR ASSEMBLIES INDICATED ON THIS DRAWING AND IS NOT TO BE USED FOR ANY OTHER PURPOSE.	NTS

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

SPECIFICATION CONTROL DRAWING

8 7 6 5 4 3 2

D C B A

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117A/128A/4115/416)

OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4180)

OR ASTM B211 OR ASTM B221

A
PART NUMBER:
M6061T6RD₁DDD
[DIA.]

WHERE "D,DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6RD.625

R 6.500

RELEASED
R 2009-09-09
MP

B	REFORMATT DWG. ADD B211& B221 SPEC (ZN 106-1), REF PART 08-020K	GP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	
MFG. APPR.		M6061T6R	REV. B
APPROVED		TITLE	SHEET 1 OF 1
DE APPR.		6061-T6 ROUND BAR	SCALE
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD. NOT FOR ISSUE AND CONTROL, AND IS PRINTED ON THE DRAFTS ONLY. NOT FOR ISSUE AND CONTROL, AND IS PRINTED ON THE DRAFTS ONLY. NOT FOR ISSUE AND CONTROL, AND IS PRINTED ON THE DRAFTS ONLY. NOT FOR ISSUE AND CONTROL, AND IS PRINTED ON THE DRAFTS ONLY.	NTS



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37410**

Purchase Order Date 8/14/2017

PO Print Date 8/14/2017

Page Number 1 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

AUG 14 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6R6.500	6061-T6 Round Bar 6.500"	8/17/2017 Yes 8/17/2017		3.00 f	\$122.00	\$366.00
2	M6061T6R10.000	6061-T6 Round Bar 10.00"	8/17/2017 Yes 8/17/2017		3.00 f	\$344.21	\$1,032.62

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$366.00

Line Total: \$344.21

\$1,032.62

AUG 18 2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$1,032.62

PO Instructions: pec st-81713

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37410**

Purchase Order Date 8/14/2017
PO Print Date 8/14/2017

Page Number 2 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA – (Free Carrier)

3	71401-45	procurement quality clauses	8/17/2017	1.00	\$0.00	\$0.00
		No				
	Procurement Quality Clauses		8/17/2017			
	A005 right of entry					
	A012 chemical and physical test report					
	A016 personnel qualification					
	A017 raw material identification (as applicable)					
	A026 certification of material conformance					
	A041 quality management system					
	A042 dart notification by supplier					
	A043 retention of quality document					

Line Total: \$0.00

PO Total: \$1,398.62

PO Instructions: pec st-81713

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 8/14/2017